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CIA-RDP86-00513R000722120008-9

KHODAKOV, ABRAM LAZAREVICH

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c. '62

1964

CRYSTALS
FERROELECTRIC PROPERTIES

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CIA-RDP86-00513R000722120008-9"

KHODAKOV, B.

KHODAKOV, B., student.

In the White Russian State University. Radio no.10:11 0 '57.
(MIRA 10:10)

1. Khimicheskiy fakul'tet Belorusskogo gosudarstvennogo
universiteta imeni V.I.Lenina.
(White Russia--Radio clubs)

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CIA-RDP86-00513R000722120008-9

TSAYG, B.A.; KHODAKOV, D.Ye. (Kuybyshev-obl.)

Treatment of fractures of the patella. Kaz. med. zhur. no. 4:90-
91 Jl-Ag '60. (MIRA 13:8)
(PATELLA--FRACTURE)

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CIA-RDP86-00513R000722120008-9"

KHODAKOV, G.S., KUDRYAVTSEVA, N.L. (Moscow)

Characteristics of the adsorption of gases and vapors on aggregated dispersed materials during their comminution. Zhur.fiz.khim. 37 no.10; 2241-2248 O '63. (MIR 17:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov Akademii stroitel'stva i arkhitektury SSSR.

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120008-9

Determination of the specific surface area of finely powdery materials by the method of nitrogen adsorption
U.S. Standardization

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120008-9

KHODAKOV, G.S.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120008-9"

5(4)

AUTHORS: Khodakov, G. S., Plutsis, E. R.

SOV/20-123-4-43/53

TITLE: On the Solubility of Finely Crushed Quartz in Water (O rastvorimosti tonkoizmel'chennogo kvartsa v vode)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 4, pp 725-728
(USSR)

ABSTRACT: The present paper deals with the solubility of quartz powder in distilled water. The degree of dispersion of the powder under investigation was estimated according to its specific surface. The quantity of quartz contained in the solution was photocolorimetrically determined. Also the influence of the glass from which the vessel is made and of the silicon in the steel container was taken into account. The first diagram shows the curves of the kinetics of the dissolution of finely ground quartz sand in water. The course taken by these curves confirms the formation of a true (and not of a colloidal) solution. These curves are well described by the kinetic equation $C = C_{\text{solubility}} (1 - e^{-kt})$. Here C denotes the concentration of the SiO_2 passing into the solution within the time t ,

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On the Solubility of Finely Crushed Quartz in Water SOV/20-123-4-43/53

$C_{\text{solubility}}$ - the solubility, k - the solution rate constant.

$C_{\text{solubility}}$ can be determined from the above diagram. The aforementioned equation may be written down as follows:

$$\ln \frac{C_{\text{solubility}}}{C_{\text{solubility}} - C} = k\tau ; \text{ it is confirmed by experimental}$$

data. The constant k does not depend on the duration of quartz crushing and amounted in the case of the experiments discussed here to 0.056 days^{-1} . A prolongation of the duration of the dry crushing of the quartz increases the values of $C_{\text{solubility}}$.

According to the data obtained, the investigated powders of finely ground quartz sand have practically the same surface.

According to the authors' data, the solubility of the finely ground quartz in water at room temperature in some cases at-

tains the value of 120 mg/l , which surpasses the solubility of coarse-crystalline quartz by 20 times its amount. This

abnormally high solubility may be explained by a destruction of the crystal structure of quartz in the grinding mill. The

here discussed data make it possible to explain the mechanism of the formation of the hydrosilicates of calcium and magnesium

Card 2/3

On the Solubility of Finely Crushed Quartz in Water SOV/2o-123-4-43/53

in the interaction of their hydroxides with the finely ground sand in water at room temperature. Also the part played by sand filling medium of concrete with a low cement content, which was ground in a vibration mill, may be explained in a similar manner. The authors thank Academician P. A. Rebinder, D. S. Sominskiy, V. B. Ratinov and L. A. Feygin for discussing results and for their valuable advice, and they also thank N. I. Gludina for her assistance. There are 3 figures, 1 table, and 16 references, 12 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut tonkogo izmel'cheniya Akademii stroitel'stva i arkhitektury SSSR
(All-Union Scientific Research Institute for Fine Grinding of the Academy of Building and Architecture, USSR)

PRESENTED: July 25, 1958, by P. A. Rebinder, Academician

SUBMITTED: July 23, 1958

Card 3/3

5(4)

SOV/20-127-5-38/58

AUTHORS:

Khodakov, G. S., Rebinder, P. A., Academician

TITLE:

The Investigation of the Fine Dispersion of Quartz and of the Influence of Added Liquids Upon This Process

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 5, pp 1070-1073
(USSR)

ABSTRACT:

The effect produced by acetone, ethyl alcohol, water, benzene, triethanolamine and oleic acid upon the dispersion of quartz sand was investigated. Crushing was carried out in a laboratory vibration mill, and determination of the degree of dispersion by measuring the specific surface by means of adsorption of nitrogen at low temperatures according to reference 14. Figures 1-4 and tables 1 and 2 show the experimental results. The addition of liquids causes a considerable increase of the specific surface in comparison to dry-grinding. The effect produced by the individual liquids is about equal. This result is explained by the fact that, in the case of dry grinding, relatively solid particle complexes are produced, the tight packing of which prevents nitrogen from penetrating, so that a large part of the free surface is eliminated. Additions of liquids cause a considerable extent of disaggregation. As

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The Investigation of the Fine Dispersion of Quartz and of the Influence of
Added Liquids Upon This Process

shown by figure 3, desaggregation depends upon the quantity of the liquid added. In water, a minimum occurs at an addition of 2-30%, which is followed, as a result of further additions, by a rapid increase of desaggregation. As shown by experiments, the described phenomena are confined not only to quartz alone, but in a different degree characteristic also of other solid substances, such as corundum, and calcite. There are 4 figures, 2 tables, and 19 references, 14 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut torgkogo izmel'-cheniya Akademii stroitel'stva i arkhitektury SSSR (All-Union Scientific Research Institute for Fine Grinding of the Academy of Building and Architecture, USSR). Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry of the Academy of Sciences, USSR)

SUBMITTED: May 22, 1959

Card 2/2

KHODAKOV, G. S., Cand Phys-Math Sci -- (diss) "Research into processes of quartz dispersion." Moscow, 1960. 18 pp; (Academy of Sciences USSR, Inst of Physical Chemistry); 150 copies; price not given; bibliography at end of text(11 entries); (KL, 26-60, 131)

15.2110

67896

S(4)

AUTHORS: Kiselev, V. F., Krasil'nikov, K. G., B004/B007Khodakov, G. S.

S/020/60/130/06/026/059

TITLE:

The Influence of the Aggregation of Quartz Particles During
Grinding Upon Its Adsorptive Properties

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol 130, Nr 6, pp 1273 - 1276
(USSR)

ABSTRACT:

In reference 1 it was said that the specific surface of air-dried quartz decreases with an increase of the duration of grinding. This was explained by the aggregation of the quartz particles. The authors aimed at investigating this phenomenon more thoroughly and to find out whether its effects on the adsorption of nitrogen, and water differ. They maintain that this phenomenon is the cause of the considerable discrepancy in published data for adsorption values and adsorption energy of quartz. Two samples of highly dispersive quartz were investigated. Sample Kv-4 was obtained by grinding transparent crystalline quartz with an excess of water, sample Kv-4A by further grinding Kv-4 in air. On both samples, the adsorption of nitrogen and steam was measured (Table 1). As shown by

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The Influence of the Aggregation of Quartz Particles S/020/60/130/06/026/059
During Grinding Upon Its Adsorptive Properties B004/B007

figure 1, the adsorption isothermal line of nitrogen on Kv-4A is lower than in the case of Kv-4 because of particle aggregation, whereas the adsorption isothermal line of steam is higher. Also figure 2 shows that the different kind of grinding the same quartz affects the adsorption of nitrogen and steam differently. This phenomenon has not yet been explained. It is presumed that relatively dense aggregates are formed, the inner surfaces of which are inaccessible to the nitrogen, whereas the adsorption of water is not impaired by these aggregations because of its dispersive (peptizing) properties. Such phenomena of aggregation were observed also in the case of other substances (corundum, calcite, silica gel) in dry grinding. The authors thank Academician P. A. Rebinder for his interest in this paper, and G. I. Aleksandrova for assisting in measurements. There are 2 figures, 1 table, and 21 references, 13 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
(Moscow State University imeni M. V. Lomonosov). Vsesoyuznyy
nauchno-issledovatel'skiy institut novykh stroitel'nykh

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67896

The Influence of the Aggregation of Quartz Particles S/020/60/130/06/026/059
During Grinding Upon Its Adsorptive Properties B004/B007

materialov (All-Union Scientific Research Institute for New
Building Materials)

PRESENTED: October 20, 1959 by P. A. Rebinder, Academician

SUBMITTED: October 13, 1959

✓

Card 3/3

XHODAKOV, G.S.; REBINDER, P.A.

Effect of the medium on the processes of dispersion of solids.
Koll. zhur. 22 no.3:365-375 My-Je '60. (MIRA 13:7)

1. Institut fizicheskoy khimii AN SSSR, Otdel dispersnykh sistem
i Institut novykh stroitel'nykh materialov AN SSSR, Moskva.
(Dispersion) (Quartz)

KHODAKOV, G.S.

Kinetics of the fine comminution of quartz. Dokl. AN SSSR 13:4 no.3:
574-577 S '60. (MIRA 13:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh stroitel'nykh
materialov Akademii stroitel'stva i arkhitektury SSSR. Predstavлено
akad. P.A. Rebinerom.
(Quartz)

KHODAKOV, G.S.; REBINDER, P.A.

Mechanism of comminution of quartz in surface active media [with summary in English]. Koll. zhur. 23 no.4:482-490
Jl-Ag '61. (MIRA 14:8)

1. Institut fizicheskoy khimii AN SSSR, Otdel dispersnykh sistem i Nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov Akademii stroitel'stva i arkhitektury SSSR.
(Quartz)

KAMAY, G.Kh.; KLABUNOVSKIY, Ye.I.; GATILOV, Yu.F.; KHODAKOV, G.S.

- * Separation of quaternary arsonium compounds into optical antipodes by asymmetric adsorption on natural dissymmetric adsorbents. Dokl. AN SSSR 139 no.5:1112-1113 Ag 7 '61.
(Izv. Akad. Nauk SSSR, Ser. Khim., No. 14, 1961, p. 14:8)
1. Institut organicheskoy khimii AN SSSR, g. Kazan', i
Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
Predstavлено академиком B.A. Arbuzovym.
(Arsonium compounds) (Adsorption)

S/069/62/024/002/009/008
B110/144

AUTHOR: Khodakov, G. S.

TITLE: A case of mechanochemical quartz dispersion

PERIODICAL: Kolloidnyy zhurnal, v. 24, no. 2, 1962, 236 - 237

TEXT: Mechanical and chemical effects were combined in an attempt to reach maximum silica dispersion. Deformation of the crystalline structure by grinding increased the reactivity of silica with calcium or magnesium oxides, in dependence on the duration of the process. Hydrosilicates formed at normal temperatures and pressures. Quartz powders ground to $< 6\text{m}^2/\text{g}$ with an M-10(M-10) vibrating mill were studied. Small blocks were formed from aqueous pastes with 9 parts by weight of SiO_2 and 1 part by weight of MgO , and then washed with hot aqueous acetic acid to remove hydrosilicates.

Powders of $> 200 \text{ m}^2/\text{g}$ specific surface, approximately 30 times the initial value, were thus obtained. The particle nuclei remained crystalline whereas the amorphous shell passed over into the filtrate. This behavior may be applied to adsorption and catalysis. Electron microscopic studies showed the dispersion to take place in particles of several hundredths μ

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S/069/62/024/002/008/008
B110/B144

A case of mechanochemical quartz...

and irregular shapes. There are 1 figure, 1 table, and 4 references.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut novykh
stroitel'nykh materialov Akademii stroitel'stva i arkhitektury
SSSR, Moskva (All-Union Scientific Research Institute of New
Building Materials of the Academy of Construction and
Architecture USSR, Moscow)

SUBMITTED: May 6, 1961

Card 2/2

S/020/63/148/003/021/037
B108/B180

575650

AUTHOR: Khodakov, G. S.

TITLE: Determining the specific surface of highly disperse powders
by rarefied gas filtration

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 148, no. 3, 1963, 581-584

TEXT: Discrepancies appear in the results of specific surface determination of pressed powder samples even at high pressures. They are probably due to the fact that the structural features of the porous body are not adequately considered. Here, the specific surface is expressed on the assumption that the gas molecules passing through the pores undergo a greater number of collisions with the walls of the pores than with other molecules. The experimental work is then reduced to determining the capacities of the sample at two different gas pressures. The specific surface resulting from these data was found to be independent of the porosity of the sample. There are 3 figures. 13

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KHODAKOV, G.S.

Effect of fine grinding on the physicochemical properties
of solids. Usp. khim. 32 no. 7:860-881 Jl '63.

(MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh
stroitel'nykh materialov.

KUDRYAVTSEVA, N.L.; KHODAKOV, G.S.

Effect of the additions of surface-active substances on the diminution of clinker. Dokl. AN SSSR 156 no. 2;437-440 My '64. (MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh stroytel'nykh materialov. Predstavлено академиком P.A.Rebinderom.

KHODAKOV, G.S.

Mechanical and chemical dissociation of liquids on freshly
formed surfaces of solids. Dokl. AN SSSR 156 no. 6: 1416-1419
Je '64. (MIRA 17:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh
stroitel'nykh materialov Akademii stroitel'stva i arkhitektury
SSR. Predstavлено академиком P.A. Rebinderom.

EDEL'MAN, L.I.; KHODAKOV, G.S.

Sedimentation analysis of disperse systems with continuous recording of the weight of accumulated deposit in the centrifugal field. Koll. zhur. 26 no.3:380-385 My-Je '64. (MIRA 17:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov, Moskva.

KHODAKOV, G.S.; EDEL'MAN, L.I.

Float-type photoelectric recording device for analysis of variance
in a centrifugal field. Zav. lab. 30 no.8:1024-1025 '64.

(MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh stroitel'-
nykh materialov.

KHODAKOV, G.S.

Mechanical and chemical dissociation of liquids on freshly
formed surfaces of solids. Dokl. AN SSSR 156 no.6:1416-1419
Je '64. (MIRA 17:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh
stroitel'nykh materialov Akademii stroitel'stva i arkitektury
SSR. Predstavлено академиком P.A. Rebinerom.

KHODAKOV, G.S.

Laws governing gas flow through finely porous bodies. Dokl. AN
SSSR 163 no.2:350-353 Jl '65. (MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh stroytel'nykh
materialov. Submitted December 31, 1964.

ACC NR: AF6017959

SOURCE CODE: UR/0413/66/000/010/0027/0027

INVENTOR: Khodakov, G. S.

ORG: None

TITLE: A method for producing highly dispersed silica. Class 12, No. 131634 [announced by the All-Union Scientific Research Institute of New Structural Materials (Vsesoyuznyy nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov)]

SOURCE: Izobreteniya, promyshlennyye obraztay, tovarnyye znaki, no. 10, 1966, 27

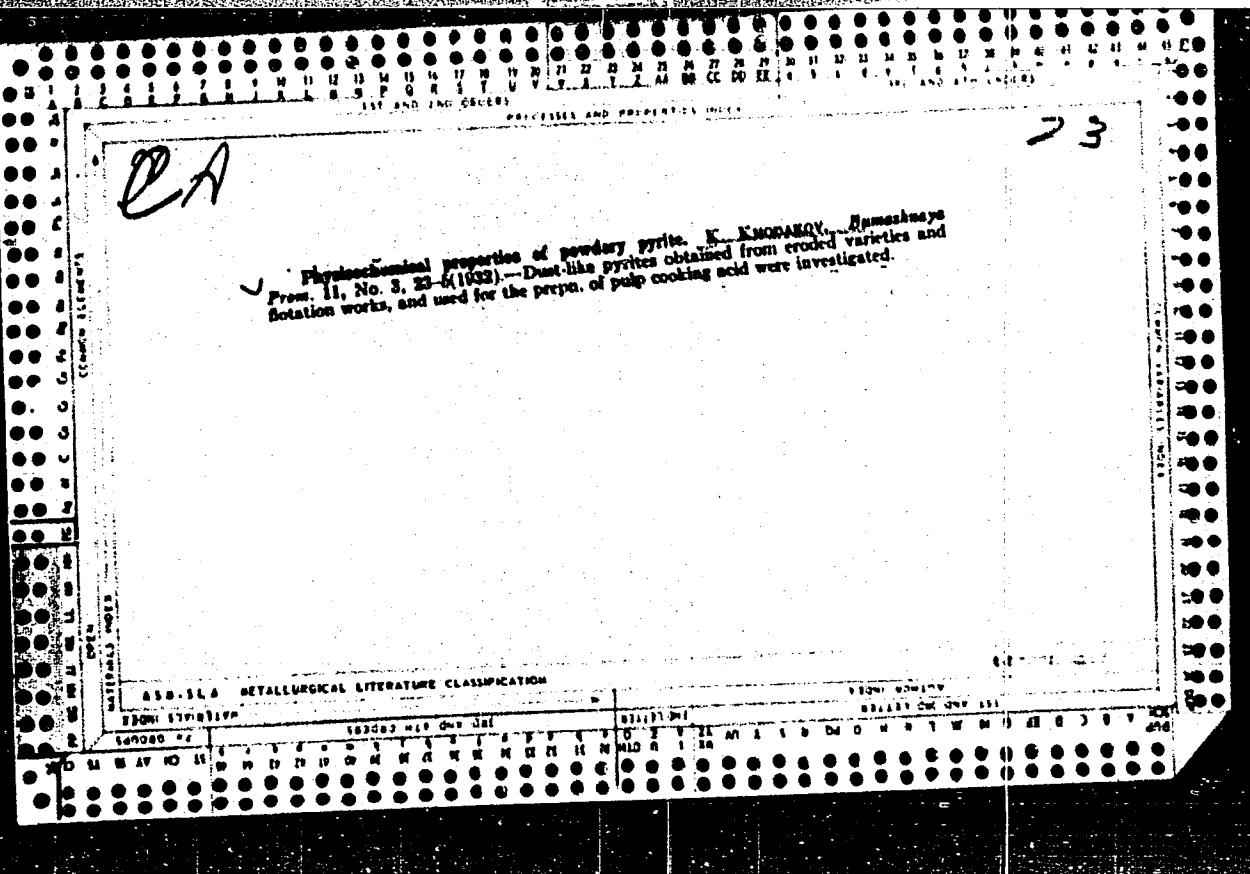
TOPIC TAGS: silica, quartz, magnesium oxide, calcium oxide

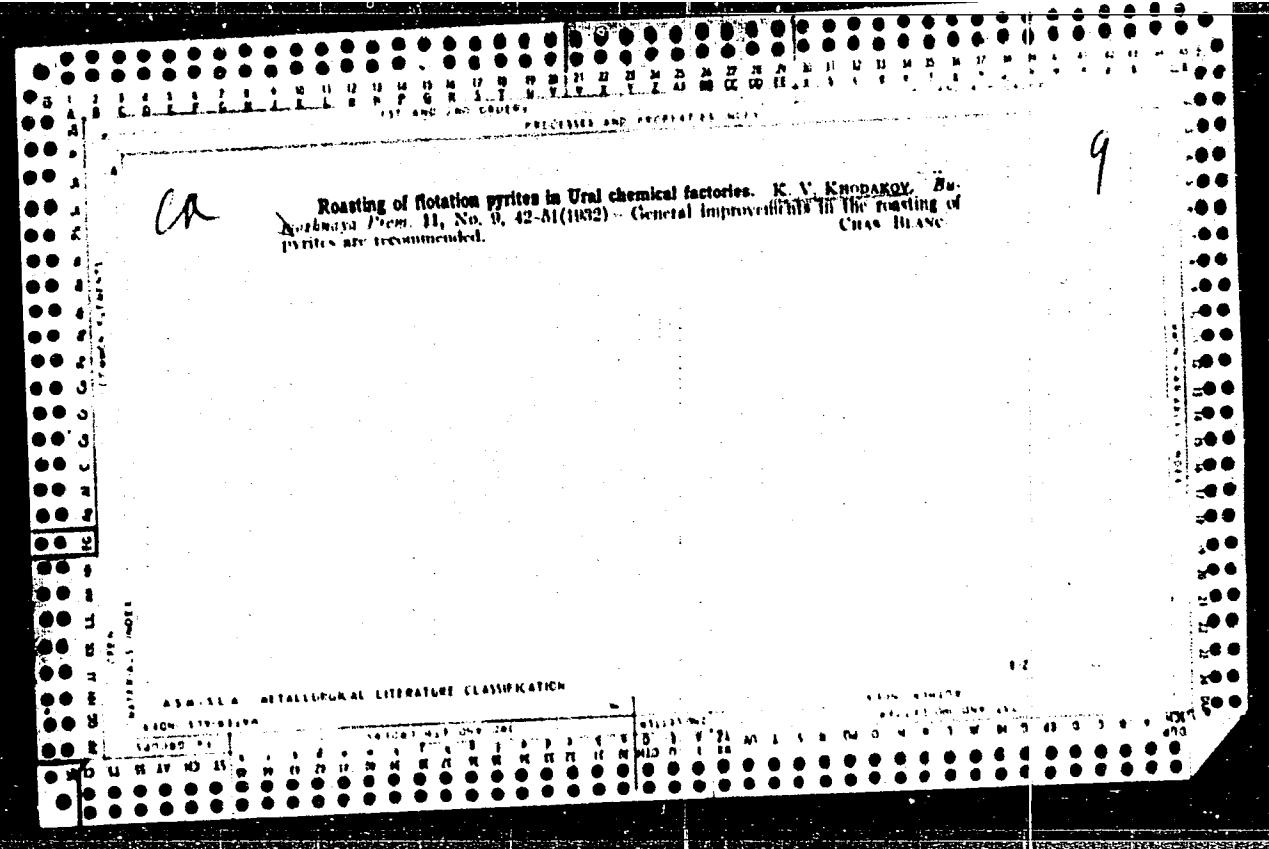
ABSTRACT: This Author's Certificate introduces a method for producing highly dispersed silica from pulverized quartz sand. The process is simplified by adding magnesium oxide or calcium oxide to the initial material and treating the mixture with water after grinding. The solution is then allowed to stand and mineral acid is used for removing hydrosilicates.

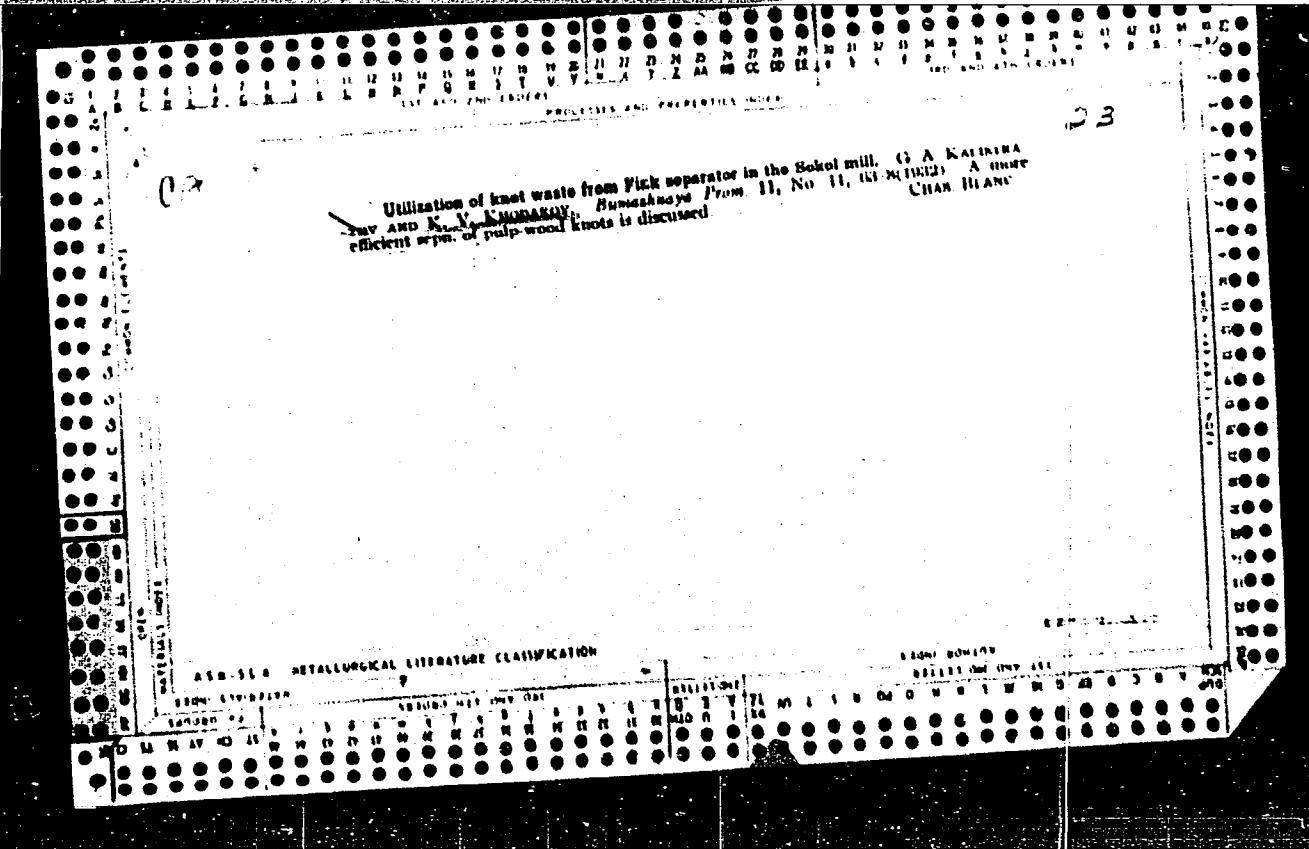
SUB CODE: 11/ SUBM DATE: 26Nov63

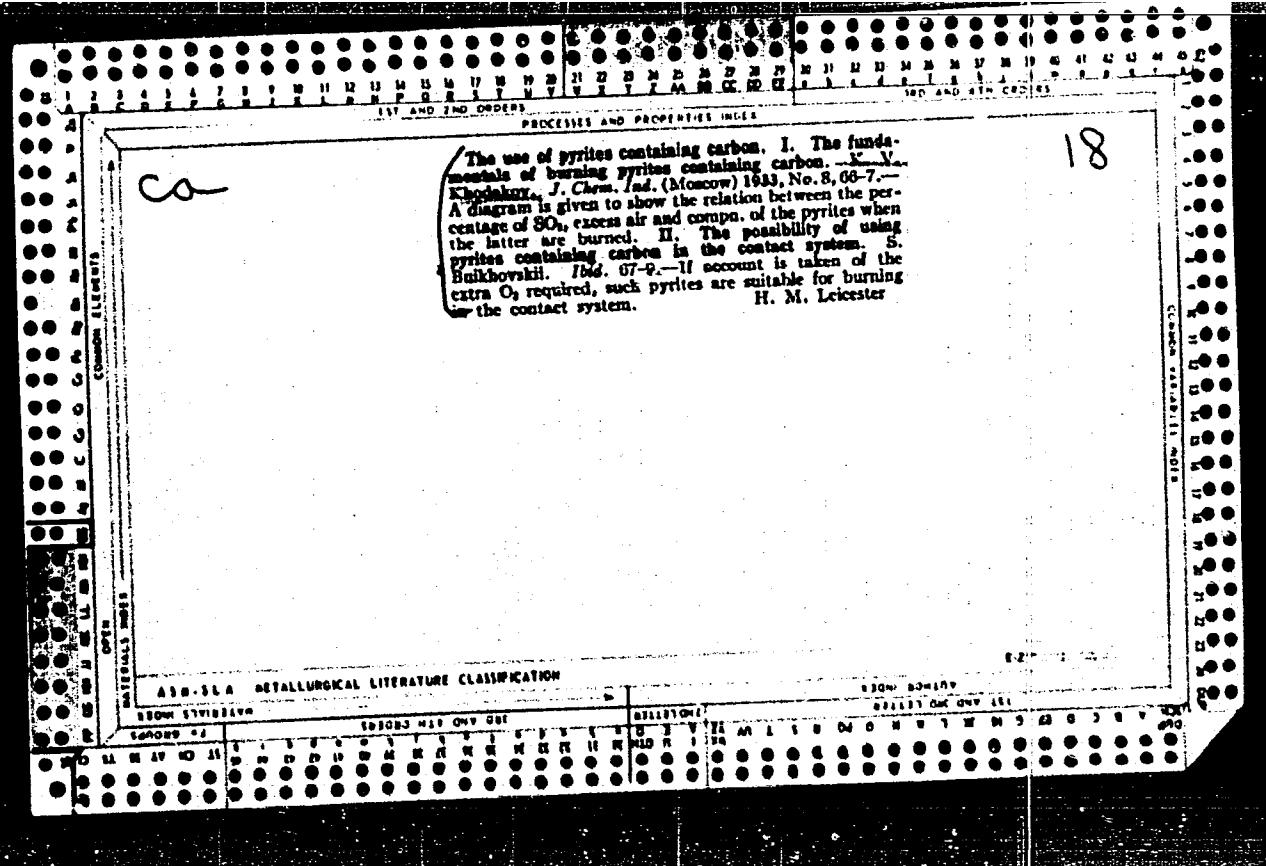
Card 1/1

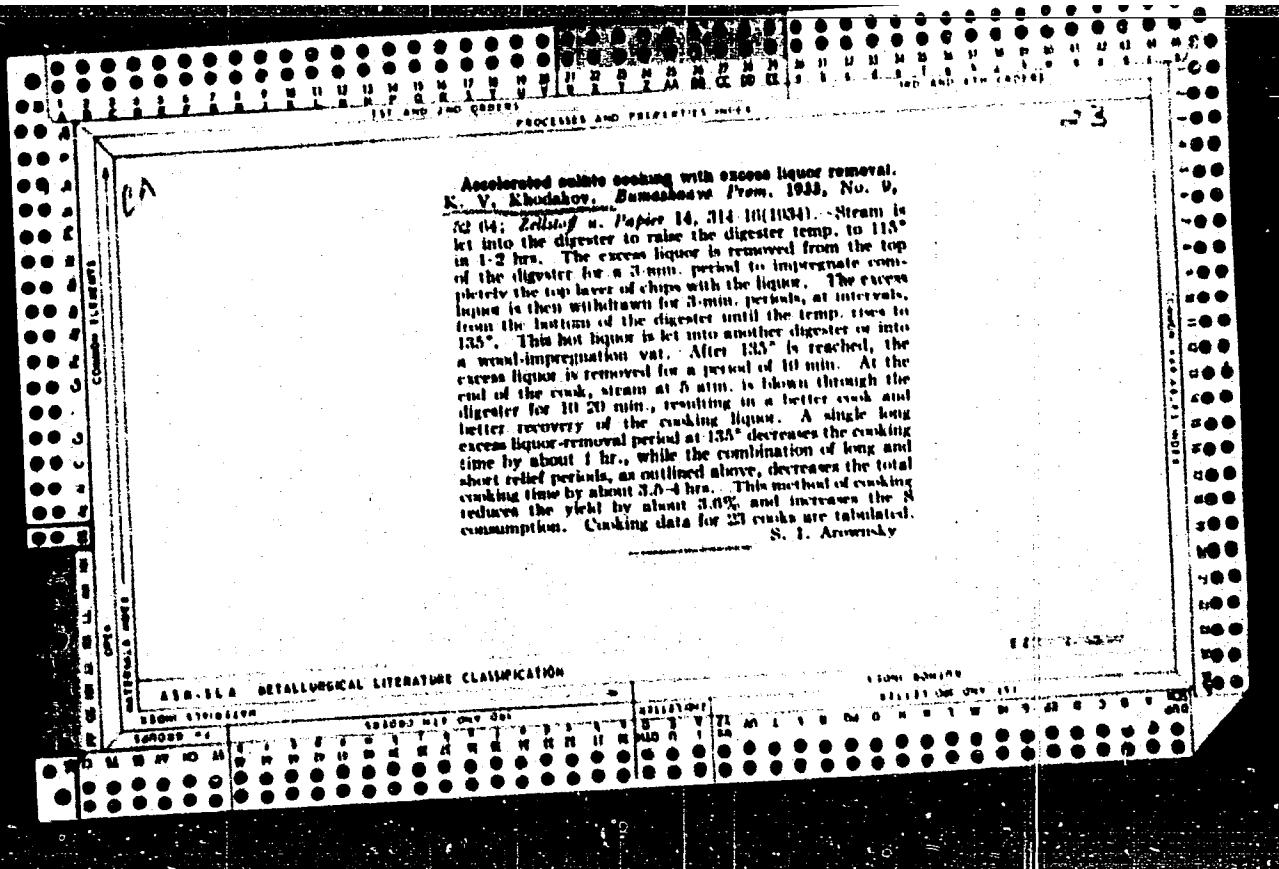
UDC: 661,718,5

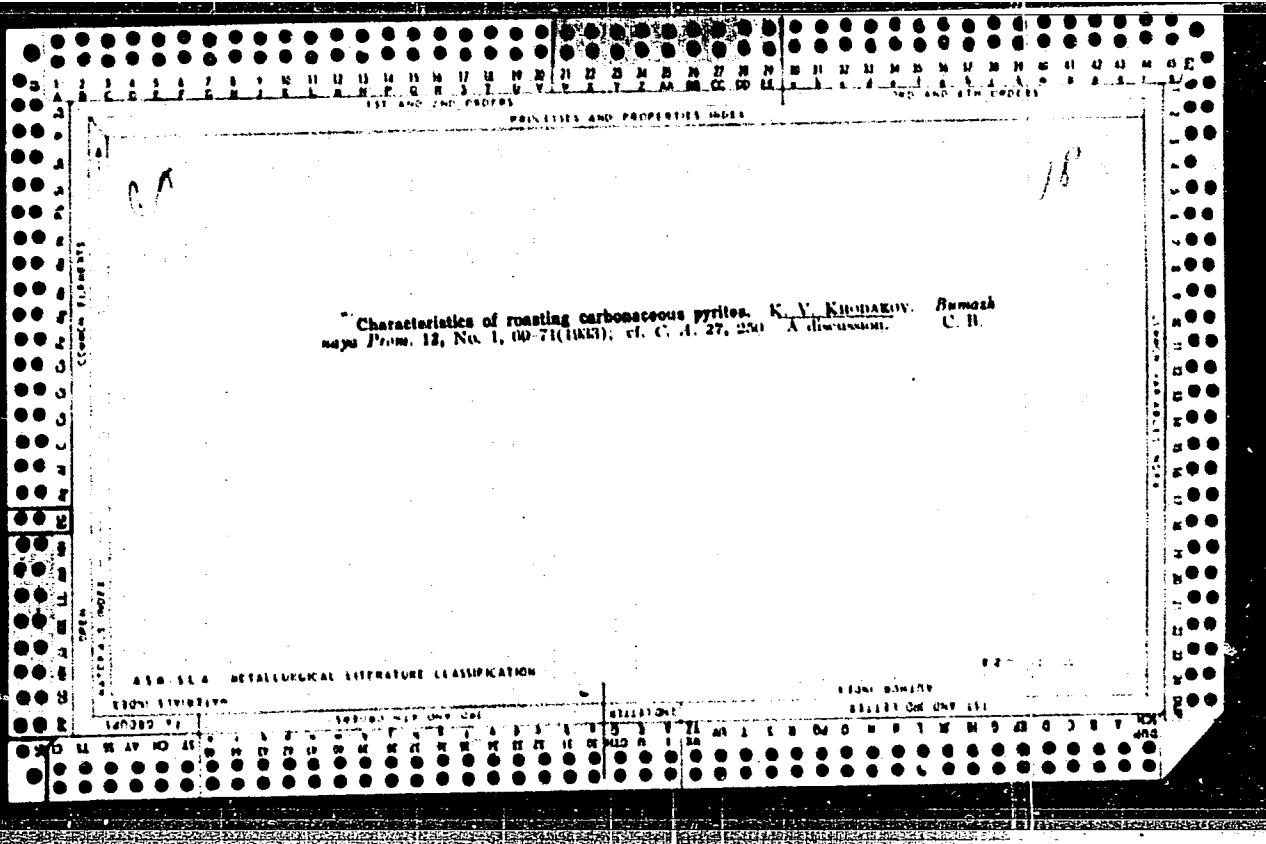






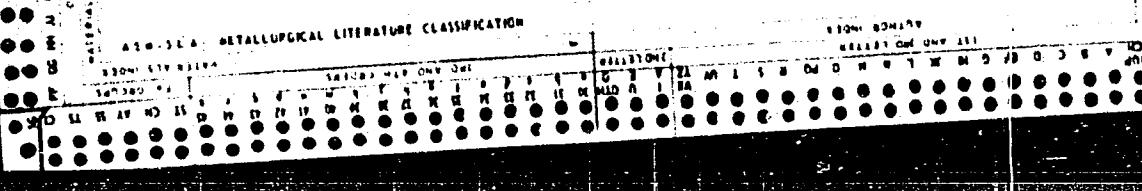


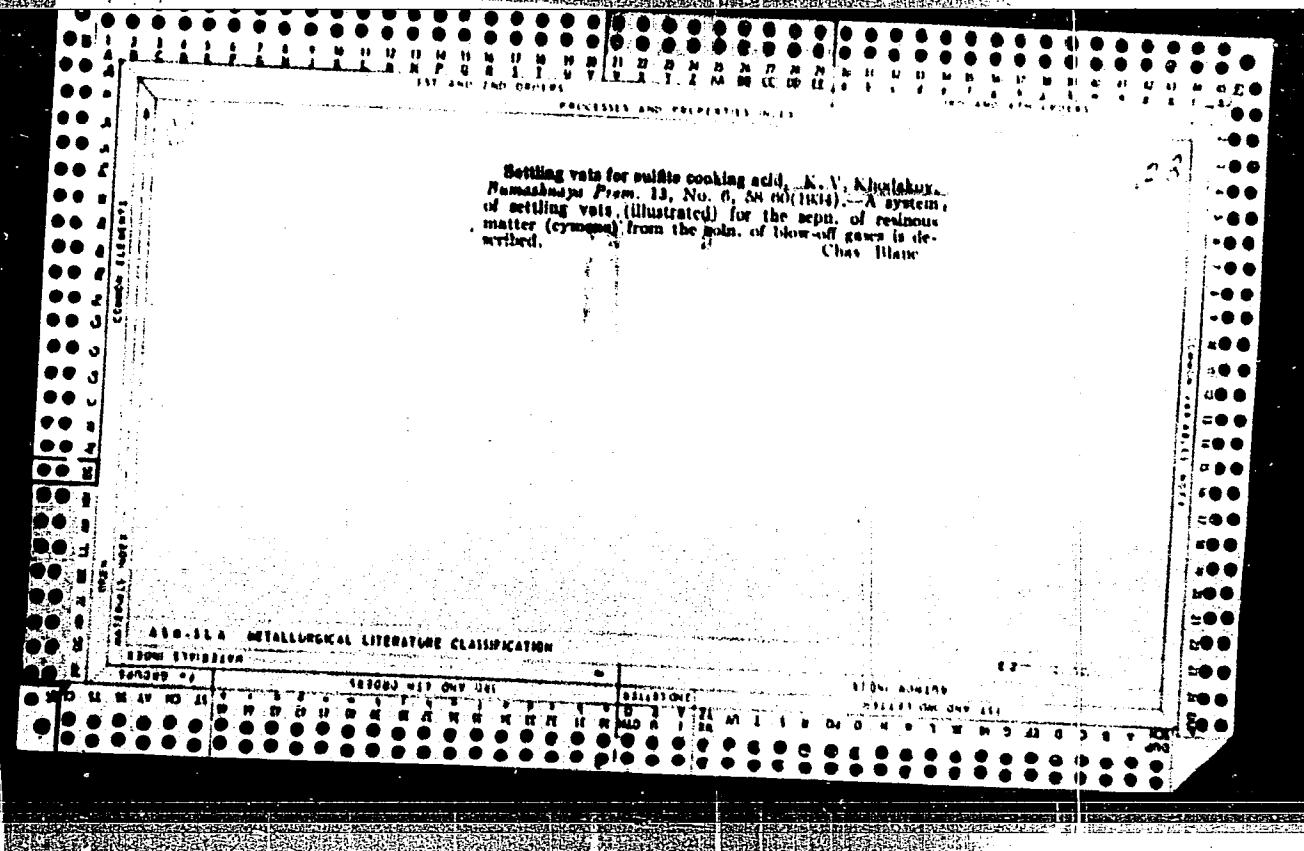


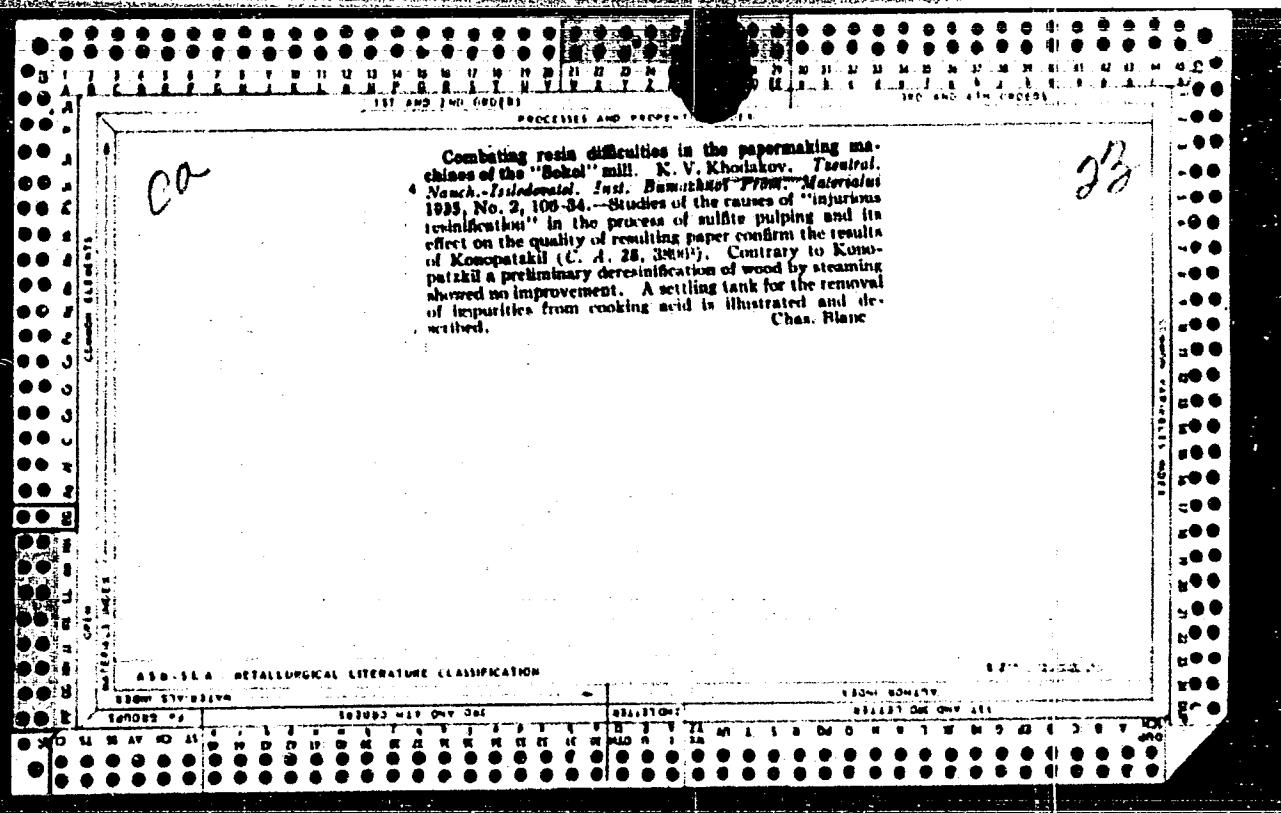


18

Performance of Dorosfield-type scrubbers and bubbling washers. Yu. V. Khodakov and G. A. Kallistratov. *Bumetallurgiya Prom.* 11, No. 4, 24-30(1934).—In the purification of pyrite roast gas by a system of scrubbing and washing, the loss of SO₂ by oxidation to SO₃ is reduced by spraying cold water into the scrubber without steam heating, and the loss by SO₃ absorption is reduced 50% by injecting the warm water from the scrubber into the washer and heating it to 60-80° by passing steam through a false bottom of the washer. C. R.







New method for determining the sulfur dioxide content
of gases from pyrites burner. K. V. Khodakov. "Prom.
khim. Prom." 19, No. 4, 50 (1977); "Chimie & in-
dustrie" 30, 740. The sample is taken by means of a bottle
that is evacuated. The SO₂ is absorbed in water and tit-
rated with CaOCl₂ in the presence of starch and KI.
A. Parfenova-Gutina

ASIN-114 METALLURGICAL LITERATURE CLASSIFICATION

12001 179-02170

SEARCHED

INDEXED

SERIALIZED

FILED

ca
23

Resin difficulties in the papermaking machines [of the "Sokol" mill], K. V. Kondratenko, Bannashchuk. Prom. 15, No. 8, 7N-85(1977); cf. C. A. 80, 30301. — As a supplement to the previous data on the "Injurious resinification" in the process of sulfite pulping, it is shown that the resin difficulties in the papermaking machines are caused not only by the natural resins and oils of wood, but also by the resinous size and lubricating oils, which form sticky, oily resinous deposits on the paper surface. Some addnl. measures for combating the resin trouble in the pulping and paper string are suggested (cf. Kom. patzik, C. A. 28, 38809). Chas. Blanc

ABE-SLA METALLURGICAL LITERATURE CLASSIFICATION

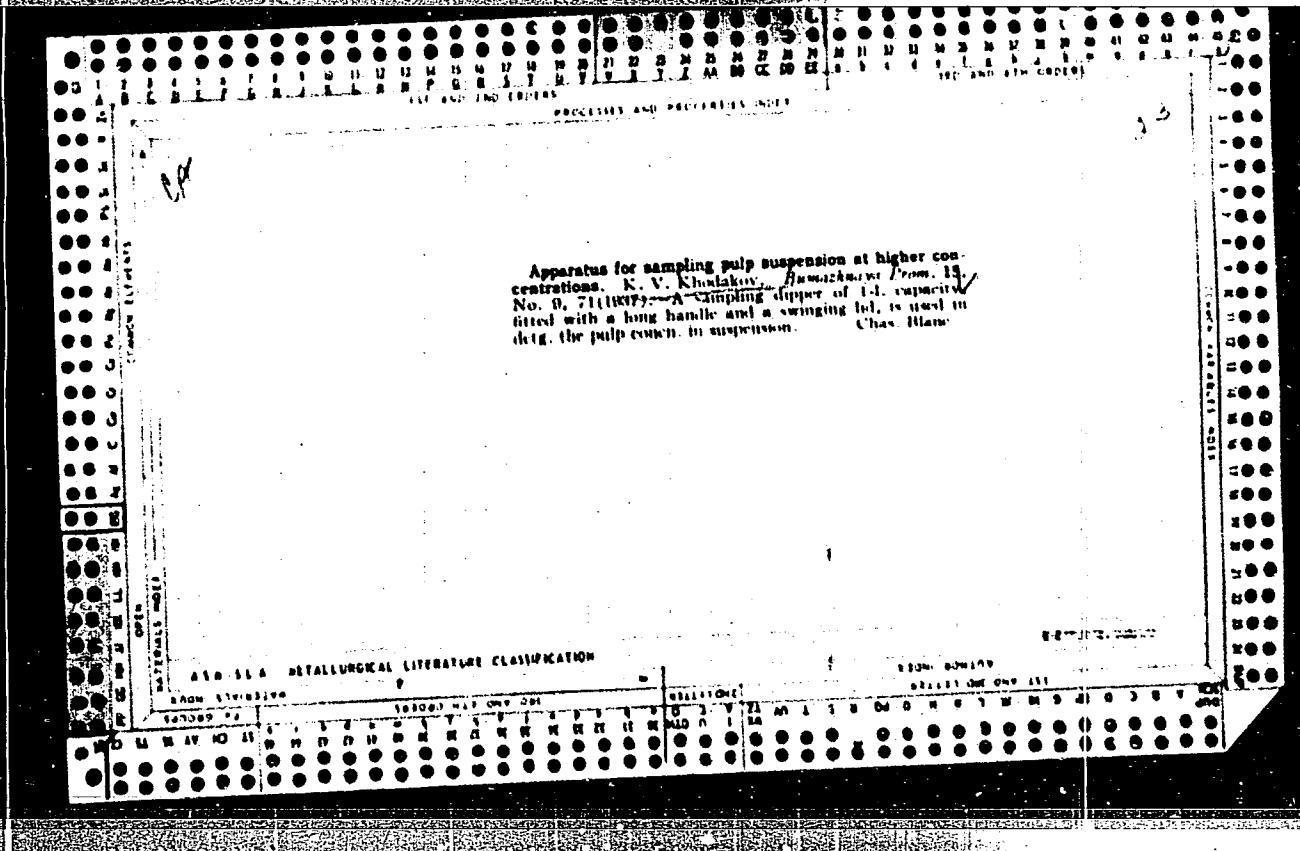
Ca

23

The solubility of sulfur dioxide in calcium bisulfite. K. V. Akhodakov. Sverkhmaya Prom. 15, No. 4, 37-41 (1907); cf. Tsvetov, Nauch.-Issledovat. Inst. Rastorgach. Prom. Materialy 1934.—The satn. of equiv. quantities of SO_2 , MgO and dolomite with SO_2 under equal conditions gives cooking acids of equal strength. Data are given on the increasing strength of the acid liquor with increasing concn. of bases and on the direct proportion between the partial pressure and bisulfite concn. A poly. nomogram for SO_2 under various conditions is given and its use in the control of the prepa. of acid, pulping and recovery of spent liquor is described. A procedure is discussed for storing cooking acid under a layer of cymene to prevent pptn. Cf. Conrad and Reuschlein (C. A. 31, 8119¹). Chas. Blane

ASA-15A METALLURGICAL LITERATURE CLASSIFICATION

SODIUM SULFITE



KHODAKOV, N. D., and ANICHKOV, N.N.

A

Ueber die Vitalfarbung der oberen Luftwege und des Gehororgans bei Kaninchen.
Zeitschr. fur Hals-, Nasen--und Ohrenheilkunde. 37, 4, 284-291, 1935.

NARAVTSEVICH, Zinoviy Abramovich; KHODAKOV, Naum Moiseyevich;
NEYMAN, M.I., red.

[For the participant of a tourist trip] Uchastniku tu-
ristskogo pokhoda. Moskva, Meditsina, 1964. 39 p.
(MIRA 17:5)

ZAKHAROV, Ye.D.; GUR'YEV, I.I.; SOLOV'YEVA, V.V.; DRONOVA, N.P.;
GIL'DENGORN, I.S.; KHODAKOV, P.Ye.; BCNDAREV, B.I.

Nonuniformity in continuously cast ingots and its effect
on the quality of semifinished products. Alium. splavy
(MIRA 17:6)
no.3:371-382 '64.

KHODAKOV, V.

On the road toward the improvement of farming (from the Regional
Agricultural Conference in Rostov-on-Don). Zemledelie 23 no.10:
85-88 O '61. (MIRA 14:9)
(Rostov Province--Agriculture)

KHODAKOV, V., kand.tekhn.nauk

Improve the operation of water works for fire fighting. Pozh.delo
7 no.12:17-18 D '61. (MIRA 14:11)
(Fire extinction--Water supply)

KHODAKOV, V. A.

Integrals

Dissertation: "An Integral With a Small Range." Cand Phys-Math Sci, Mechanics-Mathematics Faculty, Moscow Order of Lenin State U imeni M. V. Lomonosov, 26 Mar 54. (Vechernaya Moskva -- Moscow, 16 Mar 54).

SO: SUM 213, 20 Sep 1954

SIC

L 18316-65 EWD(j)/EWT(1)/EWP(e)/EWD(k)/EWT(m)/EPP(c)/EPP(n)-2/EPR/EZC(b)-2/EWP(b)
Pz-5/Pr-l/Pb-4/Pu-4 IJP(o)/AFWL/SSD WW/AT/WH
ACCESSION NR: AP4049532 6/0089/64/017/005/0329/0335

AUTHOR: Millionshchikov, M. D.; Gverdtsiteli, I. G.; Abramov,
A. S.; Gorlov, L. V.; Gubanov, Yu. D.; Yefremov, A. A.; Zhukov, V. I.;
Ivanov, V. Ye.; Kovyrzin, V. K.; Kobtsev, Ye. A.; Kosovskiy, V. G.;
Kukharkin, N. Ye.; Kucherov, R. Ya.; Lalykin, S. P.; Merkin, V. I.;
Nechayev, Yu. A.; Pozdnyakov, B. S.; Ponomarev-Stepnov, N. N.;
Samarin, Ye. N.; Serov, V. Ya.; Usov, V. A.; Fedin, V. G.; Yakovlev,
V. V.; Yakutovich, M. V.; Khodakov, V. A.; Kompaniets, G. V.

TITLE: The "Romashka" high-temperature reactor-converter /9

SOURCE: Atomnaya energiya, v. 17, no. 5, 1964, 329-335

TOPIC TAGS: nuclear power reactor, reactor feasibility study, re-
search reactor, thermoelectric converter/Romashka

ABSTRACT: The authors briefly describe the construction, parameters,
test results, and operating experience of the "Romashka" reactor

Cord 1/1

L 18316-65
ACCESSION NR: AP4049532

converter unit, which has been in operation at the Kurchatov Atomic Energy Institute since August 1964. The fuel used is uranium di-carbide enriched to 90% U²³⁵. Graphite and beryllium are used as reflectors. Electricity is generated by silicon-germanium semiconductor thermocouples distributed on the outer surface of the reactor and connected in four groups which can be connected in series or in parallel. The temperatures of the active zone and outer surface are 1770 and 1000C, respectively. The power ratings are 0.50-0.80 kW electric and 40 kW thermal, the maximum current (parallel connection) is 88 A, the neutron flux is 10^{13} neut/cm² sec in the center of the active zone and 7×10^{12} on its boundary. The reactor has a negative temperature reactivity coefficient. The equipment has high inherent stability and requires no external regulator, and little change was observed in the thermocouple properties after 2500 hours of operation. Tests on the equipment parameters are continuing, and the results are being analyzed for use in future designs.
Orig. art. has: 8 figures and 1 formula.

Cord 2/3

MILLIONSHCHIKOV, M.D.; GVERDTSITELI, I.G.; ABRAMOV, A.S.; GORLOV, L.V.;
GUBANOV, Yu.D.; YEFREMOV, A.A.; ZHUKOV, V.F.; IVANOV, V.Ye.;
KOVRZIN, V.K.; KOPTELOV, Ye.A.; KOSOVSKIY, V.G.; KUKHARKIN,
N.Ye.; KUCHEROV, R.Ya.; LALYKIN, S.P.; MERKIN, V.I.; NECHAYEV,
Yu.A.; POZDNYAKOV, B.S.; PONOMAREV-STEPNOY, N.N.; SAMARIN, Ya.N.;
SEROV, V.Ya.; USOV, V.A.; FEDIN, V.G.; YAKOVLEV, V.V.; YAKUTOVICH,
M.V.; KHODAKOV, V.A.; KOMPANIYETS, G.V.

High-temperature reactor-converter "Romashka." Atom. energ.
17 no.5:329-335 N '64. (MIRA 17:12)

~~RHODAKOV V. N.~~

~~KHLOPKIN, N. S.~~

"Temperature-Field of Reactor Fuel Element at Non-Uniform Heat Removal",

by V. A. Khodakov and N. S. Khlopkin.

Report Presented at 2nd UN Atoms-for-Peace Conference, Geneva, 9-13 Sept 1958

KHODAKOV, V. F., Engr

USSR/Metals - Cutting

Aug 50

"Semiautomatic Machine for Cutting Circular Flanges," Engineers S. A. Gol'denberg,
V. F. Khodakov

"Avtogen Delo" No 8, pp 20-22

Describes semiautomatic gas cutting machine for mass production of pipes in ship-building industry. Machine is designed to cut flanges of 50-600 mm diameter from steel 10 - 30 mm thick. One advantage is possibility of cutting flanges at very edge of metal sheet, bringing waste to minimum. Productivity is 85 pieces for 8 hours. Operation of four machines for 1½ years demonstrated dependability.

FDD

PA 167T71

KHODAKOV, V. F.

Moscow Inst of Water Economy Engineers imeni V. R. Vil'yams. Chair of Hydraulics. Moscow, 1956.

KHODAKOV, V. F.- "On the union of a turbulent stream with a calm one in expanding streams."
Moscow Inst of Water Economy Engineers imeni V. R. Vil'yams. Chair of Hydraulics.
Moscow, 1956.
(Dissertation for the Degree of Candidate in Technical Sciences.)

SO: Knizhnaya Letopis' No. 13, 1956.

KHODAKOV, V.F., kand.tekhn.nauk

Union of turbulent and streams in suddenly enlarging channels.
Nauch.zap. MIIVKH 20:198-214 '58. (MIRA 13:6)
(Hydraulics)

KHODAKOV, V., kand.tekhn.nauk; SHUVALOV, M., inzh.

Useful textbook ("Practical hydraulics in fire prevention"
by N.A.Tarasov-Agalakov. Reviewed by V.Khodakov,
M.Shuvalov). Posh-delo 6 no.8:32 Ag '60.

(MIRA 13:8)

(Fire prevention) (Hydraulics)
(Tarasov-Agalakov, N.A.)

KHODAKOV, V.G.; AVSYUK, G.A., ovt. red.; OGANOVSKIY, P.N., red.

[The Arctic Ural] Poliarney Ural. Moskva. (Its Materialy
gliatsiologicheskikh issledovanii). [Snow cover] Snezhnyi
pokrov. 1962. 129 p. (MIRA 16:2)

1. Akademiya nauk SSSR. Institut geografii.
(Ural Mountains--Runoff)

KHODAKOV, V.G.; AVSYUK, G.A., otd.-red.; OGANOVSKIY, P.N., red.

[The Arctiv Ural] Poliarnyi Ural. Moskva. (Its Materialy glaciologicheskikh issledovanii). [Ablation. Runoff] Abliatsiya. Stok. 1962. 140 p. (MIRA 16:2)

1. Akademiya nauk SSSR. Institut geografii.
(Ural Mountains—Glaciology)
(Ural Mountains—Runoff)

KHODAKOV, V.G.

Possible error in the measurement of precipitation. Meteor. i
gidrol. no.6:51-52 Je '64 (MIRA 17:8)

KHODAKOV, V.G.

Dependence of the total ablation of the surface of glaciers
on the air temperature. Meteor. i gidrol. no.7:48-50 Jl '65.
(MIRA 18:6)

1. Institut geografii AN SSSR.

I 45786-66 JT/JXT(BF)

ACC NR: AR6016024

SOURCE CODE: UR/0271/66/000/001/B030/B030

AUTHOR: Khodakov, V. Ye.39
BTITLE: Use of an APM-1 typewriter in computer output devices

SOURCE: Ref. zh. Avtomat. telemekh. i vychisl. tekhn., Abs. 1B214

REF SOURCE: Avtomatika i priborostr. Inform. nauchno-tekhn. sb., no. 2(22), 1965, 31-33

TOPIC TAGS: digital computer, printer, automatic printer/APM-1 printer

ABSTRACT: The automatic APM-1 printer developed at the Scientific Research Institute of Control Computers (NII upravlyayushchikh VM) is described. Since

its parameter printing is done line by line, data concerning each parameter are arranged in columns making it possible to rapidly analyze the course of the process. The printer operates according to the principle of "quick printing" (the type carrying wheel rotates at a constant speed). During printing, an electromagnet actuates the hammer when the selected sign passes underneath it. At the moment of printing, the paper tape stops and then advances one step. Because the typewriter contains 24 characters, a 5-digit binary code is required.

Card 1/2

UDC: 681.142.623

L 45786-66

ACC NR: AR6016024

The typewriter and digital computer are coupled by a circuit using ferrite-diode elements and transistorized amplifiers. The control circuit uses RMUG-type relays and telephone-type keys. The functional diagram of printing control and the electromechanical diagram of the control device are described. State tests of the experimental model of the typewriter and two years of test operation have demonstrated its high reliability. Orig. art. has: 2 illustrations. [Translation
[DW]

SUB CODE: 09/

Card 2/2 pb

L 62253-65 EWT(d)/ED-2/ENP(1) IJP(c) 1B/CO

ACCESSION NR: AP5016087

UR/0302/65/000/002/0031/0033

601.142.623

26
B

AUTHOR: Khodakov, V. Ye.

TITLE: Using an APM-1 printer at the computer output

SOURCE: Avtomatika i priborostroyeniye, no. 2, 1965, 31-33

TOPIC TAGS: computer printer, on the fly printer / APM-1 printer

ABSTRACT: The development and test results of the first Soviet on-the-fly printer APM-1 are reported. The high-speed line printer uses a continuously rotating print wheel carrying 24 characters; they are selected by a 5-digit binary code. Fast-acting hammers print the characters. The printer is connected to the computer via a control unit which comprises ferrite-diode logical elements and semiconductor amplifiers. Functional and principal circuits of this unit are presented and their operation is briefly explained. During the two-year operation of an APM-1 on-the-fly printer prototype, no failure of a major component occurred. Orig. art. has: 2 figures.

Card 1/2

L 62253-65

ACCESSION NR: AP5016087

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: DP, II

NO REF Sov: 000

OTHER: 000

dm
Card 2/2

KSHEMINSKIY, E.I.; KHODAKOV, V.Ye.

Transducer for indicating angular positions of a shaft in
automatic printing machines. Avtom. i prib. no.1:58-60
Ja-Mr '65. (MIRA 18:8)

CHURANOV, S., prepodavatel'; KHODAKOV, Yu., prof.; CHERTKOV, I.,
prepodavatel' khimii

Problems and experiments in chemistry. Nauka i zhizn' 30 no.4:
98 Ap '63. (MIRA 16:7)

1. Moskovskiy gosudarstvennyy universitet (for Churanov).
2. Kafedra khimii Moskovskogo aviationskogo erdena lenina
instituta im. Serge Ordzhonikidze (for Khodakov). 3. Nauchno-
issledovatel'skiy institut obshchego i politekhnicheskogo
obrazovaniya Akademii pedagogicheskikh nauk RSFSR (for Chertkov).
(Chemistry—Problems, exercises, etc.)

MINACHEV, Kh.M.; KHODAKOV, Yu.S.

Kinetics of hydrogenation of the vinyl ether of β -(diethylamino) ethanol and vinyl phenyl ether on 1% pd./ Al_2O_3 . Izv.AN SSSR Otd.khim. nauk no.4:722-724 Ap '61. (MIRA 14:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Ether) (Hydrogenation)

MINACHEV, Kh.M.; MARKOV, M.A.; KHODAKOV, Yu.S.

Effect of gamma rays on the catalytic activity of platinized
aluminosilicate. Izv. AN SSSR. Otd.khim.nauk no.7:1227-1230
Jl '61. (MIRA 14:7)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
(Aluminosilicates) (Catalysis) (Gamma rays)

MINACHEV, Kh.M.; KHODAKOV, Yu.S.

Effect of gamma rays on the activity of platinum-containing catalysts. Izv. AN SSSR. Otd.khim.nauk no.8:1430-1432 Ag '61. (MIRA 14:8)

- 1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
(Gamma rays) (Catalysis) (Platinum)**

KHODAKOV, Yu.S.; MINACHEV, Kh.M.

Kinetic relations of hydrogen peroxide decomposition on
 γ -irradiated and nonirradiated lanthanum hydroxide. Zhur.
fiz. khim. 37 no.11:2445-2450 N'63. (MIRA 17:2)

1. Institut organicheskoy khimii imeni Zelinskogo, AN SSSR.

L 48381-65
JD/JG/RM

EWT(m)/EPF(c)/EWP(j)/EWP(t)/EWP(b) Po-4/Pr-4 111/c

ACCESSION NR: AP5006775

S/0195/65/006/001/0089/0094

AUTHOR: Minachev, Kh. M.; Khodakov, Yu. S.

TITLE: Study of the catalytic properties of the rare earth elements in the reaction
of the transformation of normal butane

SOURCE: Kinetika i kataliz, v. 6, no. 1, 1965, 89-94

TOPIC TAGS: rare earth element, butane, transformation, lanthanum, cerium,
praseodymium, neodymium, samarium, holmium, erbium, dysprosium, ytterbium, thulium,
erbium

ABSTRACT: Circulation-flow and static methods were used to investigate the catalytic
properties of the oxides of lanthanum, cerium, praseodymium, neodymium, samarium,
holmium, erbium, dysprosium, ytterbium, thulium, and terbium in the reaction of the
transformation of normal butane at 400-550°. The catalytic properties of erbium
oxide were also studied in the transformation of propylene, ethane, and ethylene.
Prepared catalysts were heated in a muffle furnace at 650° for 5 hours. The tests
were conducted both with a flow-circulation unit and a static unit (see figs. 1 and
2 of the Enclosure). The kinetics of the reaction in all cases were described by

Cord 1/1

L-48581-65 ACCESSION NR: AP5006775	an equation of the first order. Specific rates of activation were determined for all the slopes of the curves for magnetic and catalytic properties differ in the rare earth oxide series. "The authors express their gratitude to V. A. Korlakskaya for participating in the experimental work." Orig. art. has: 6 figures, 3 tables, 1 equation.	preexponential factors, and energies of activation were determined for all the oxides studied. It was found that the rare earth oxide series. "The authors express their gratitude to V. A. Korlakskaya for participating in the experimental work." Orig. art. has: 6 figures, 3 tables, 1 equation.	2
ASSOCIATION: Institut organicheskoy khimii imeni N. D. Zelinskogo AN SSSR (Institute of Organic Chemistry, AN SSSR)	imeni N. D. Zelinskogo AN SSSR	SUB CODE	IC, OC
SUBMITTED: 26Jul63	ENCL: 0		
NO REF Sov: 005	OTHER: 005		
Card 2/4			

KHODAKOV, Yu.S.; MINACHEV, Kh.M.; STERLIGOV, O.D.

Kinetics of the catalytic dehydrogenation of butane to
butylenes. Dokl. AN SSSR 165 no.2:344-346 N '65.

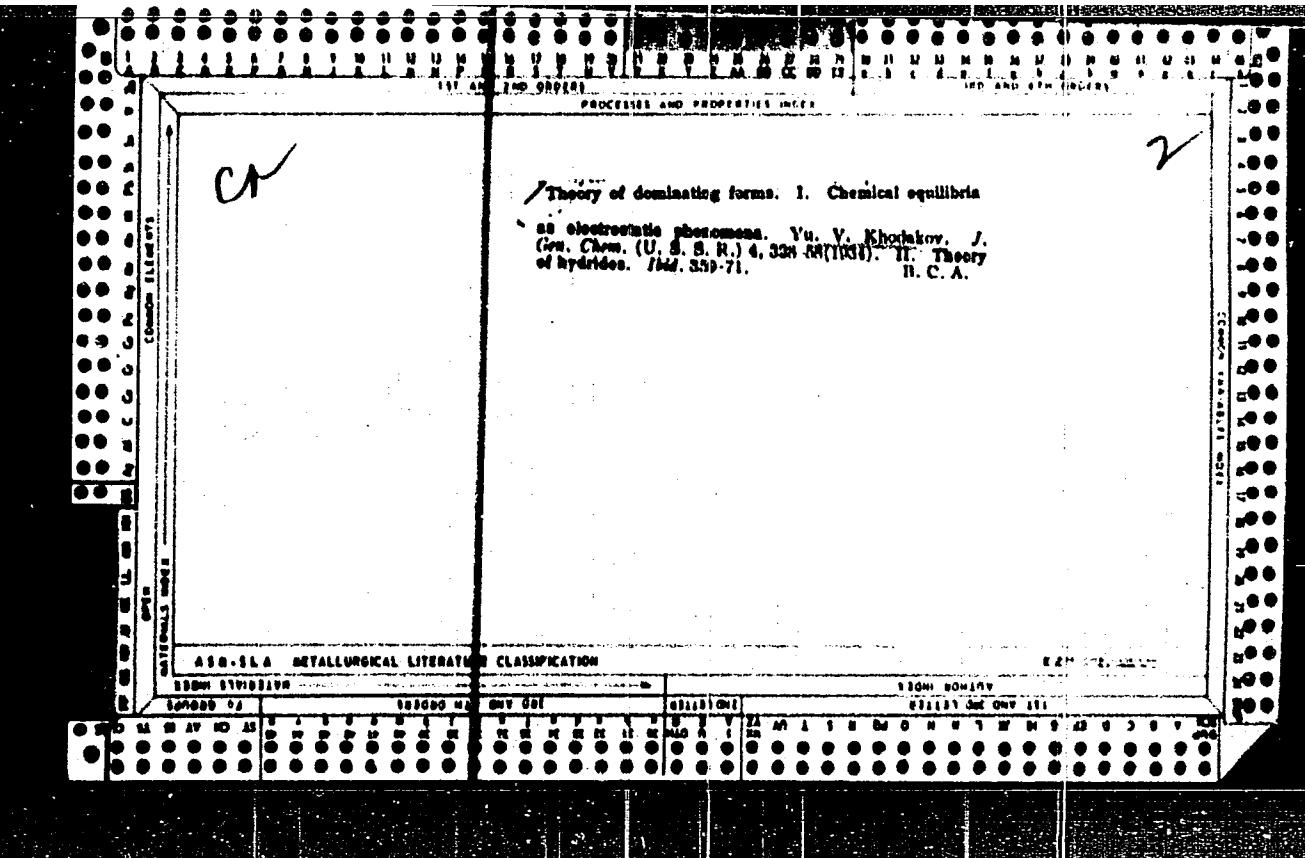
(MIRA 18:11)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
Submitted April 12, 1965.

KHODAKOV, Yu.V.; ZHURAVLEVA, T.M.; MIL'CHENKO, V.V.

Determination of chromate and dichromate simultaneously, Zav.lab.
29 no.8:929 '63. (MIRA 16:9)

1. Moskovskiy aviationsionnyy institut imeni S.Ordzhonikidze.
(Chromates) (Dichromates)

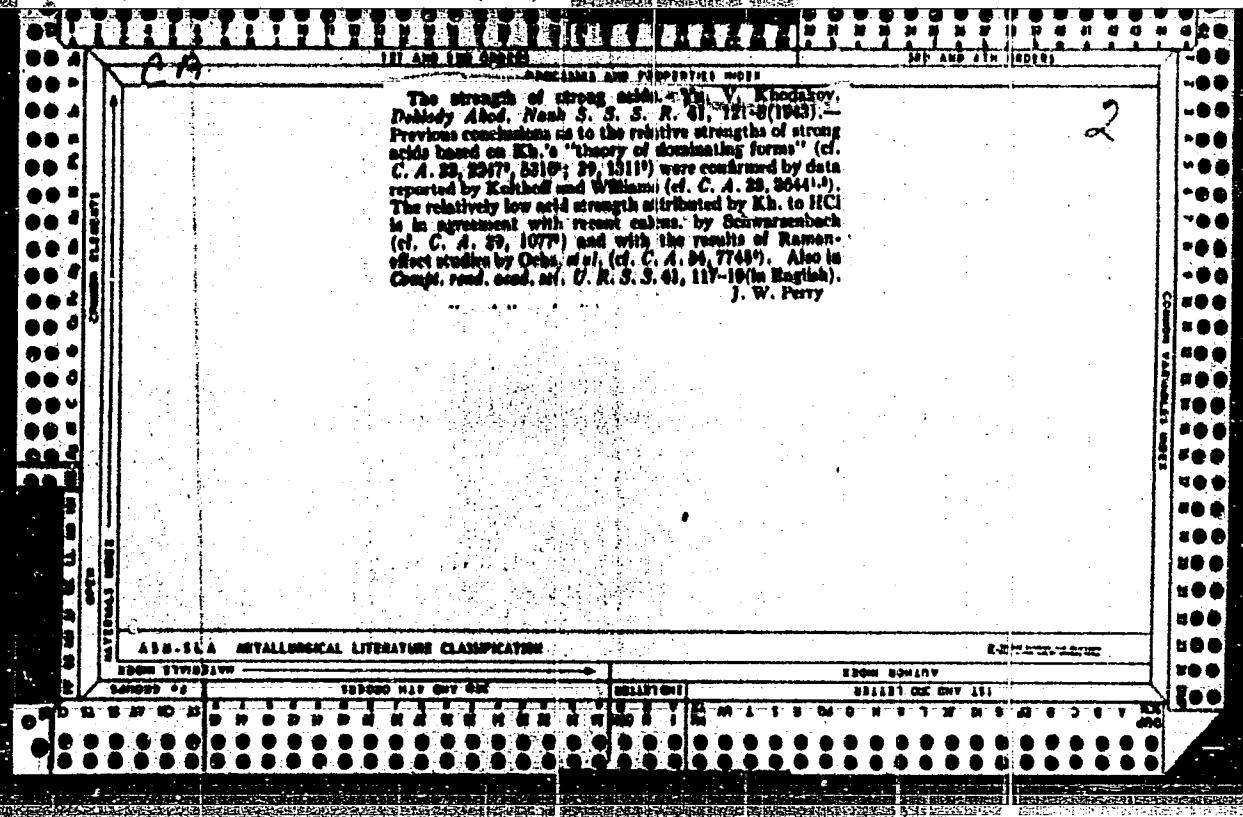


heteroic acid as a twin of sulfuric acid. A. L. Arkhakov and V. N. Khokhlov, *Zhur. russ. chem. sv.*, **19**, No. 1, 9-11, 46, 320-2 (1915) [in English]; cf. C. A. 10, 614^a. - Kh. has developed theoretical reasons for concluding that the strength of O-contg. acids increases with the at. no. of the acid-forming element. This is confirmed by data of the 2nd ionization const. of H_2SO_3 (**I**) and H_2SeO_3 (**II**) made by potentiometric data of the pH of H_2SO_3 solns., to which Na_2SO_3 or Na_2SeO_3 was added. Methyl orange was used as indicator. The 2nd ionization const. of **I** and **II** were detd. to be, resp., 3.5×10^{-3} and 1.0×10^{-4} . The relative strengths of the two acids remained unchanged throughout the interval 0-30°. J. W. Perry

ASME-1964 METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722120008-9"



Structure and properties of the modifications of P as a consequence of its atomic structure. Yu. V. Khodakov. Doklady Akad. Nauk S. S. R. S. R. 42, 125-6 (1944); *Commun. Acad. sci. U. R. S. S. R.*, 42, 120-1 (1944) (in English).—Instability of white P is attributed to strain in the mod. because of its tetrahedral structure involving distortion of the valence angles by about 40°. Intercrys. rearrangement of white P tends to form infinitely extended lattices with valence angles nearer to their natural value. The structure of P_2O_5 is probably a regular octahedron formed of O atoms with the centers of 4 of the 8 faces occupied by P atoms whose natural valence angles causes their displacement along the normals to the octahedron faces so as to form obtuse pyramids resting thereon. J. W. Perry

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722120008-9"

Stereochemistry of anhydrides. Yu. V. Khodakov, Doklady Akad. Nauk S.S.R. 43, 212-15; Compt. rend. acad. sci. U.R.S.S. 43, 23-6 (1944) (in English).—The chem. properties of acid anhydrides can be correlated with their stereochem. structure, provided the latter is in accord with the 2 following principles: (1) Every high-valency atom with 4 coordination tends to form around itself a tetrahedron composed of O atoms. (2) These tetrahedrons avoid having faces or edges in common. In anhydrides, X_2O_4 ($X = Cl, S, P, Si$), these conditions are fulfilled when all (SiO_4) or part (3 with PO_4 , 2 in SO_4 , and 1 in ClO_4) of the 4 O atoms grouped around any one X atom also enter into the formation of tetrahedrons surrounding other X atoms. In the case of Cl_2O_7 , only one type of simple, nonpolymeric mol., viz. $U_2Cl_2O_7$, is possible. With SO₃, polymers may form either rings (readily fusible, volatile α -SO₃) or long, thread-like mol. (asbestos-like, β -SO₃). In the latter case, very small amounts of H₂O probably sat. the valencies at the ends of the chains. This is in harmony with the catalytic action of traces of H₂O in converting α -SO₃ into β -SO₃. The most probable structure for P_2O_5 is a dimer mol., P_2O_10 , in the form of a tetrahedron built up by joining 4 tetrahedrons (each consisting of 1 P and 4 O atoms) at the vertices so that each tetrahedron is joined at 3 vertices with one vertex of each of the other 3 tetrahedrons. This formula explains the ease with which P_2O_5 is oxidized to PO_4 (cf. J. Am. Chem. Soc. 62, 221) and the obscure complexities involved in the aspartic reaction of P_2O_5 with H₂O. J. W. Petty

ABD-SEA METALLURGICAL LITERATURE CLASSIFICATION

3300 0370040

1877-1878

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722120008-9"

Mechanism of the hydration of the volatile modification of phosphorus pentoxide. N. I. Rudomina and V. V. Khodgum-Zhar, Obshchee Akad. Nauk SSSR, *Zhur. Khim.* 1960, 34, 1347-57 (1960).—By following the contents of orthophosphate, tripolyphosphate, and pyrophosphate as functions of time, the authors confirmed their previously proposed mechanism in both acid and alk. media: $\text{P}_2\text{O}_{10}^{4-} \rightarrow \text{H}_2\text{P}_2\text{O}_7^{4-}$ (tetragonal mol. with P atoms at apices) (cf. *J. Am. Chem. Soc.* 1951, 73, 1002; $\text{H}_2\text{P}_2\text{O}_7$ (open chain) $\rightarrow \text{H}_2\text{PO}_4^- + \text{H}_2\text{PO}_7^{4-}$; $\text{H}_2\text{PO}_7^{4-} + \text{H}_2\text{PO}_4^- \rightarrow \text{H}_2\text{PO}_4^- + 2\text{H}_2\text{PO}_4^- + \text{HPO}_4^{2-}$) was determined by titrating the H^+ liberated when the soln. was treated with excess Ag^+ . Tripolyphosphate was determined by titrating the H^+ liberated by the reaction $\text{H}_2\text{P}_2\text{O}_7^{4-} + 2\text{Zn} = \text{Zn}_2\text{P}_2\text{O}_7^{4-} + 2\text{H}^+$, gravimetrically detg. pyrophosphate, and subtracting the amt. of H^+ liberated by it. The presence of $\text{H}_2\text{PO}_7^{4-}$ was also demonstrated by the isolation of $\text{NaZn}_2\text{P}_2\text{O}_7$ from the soln. Cyrus Feldman

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722120008-9

ea

6

The mechanism of hydration of the volatile modicum
of phosphoric anhydride. N. I. Radkova and Yu. V.
Khudakov. J. Gen. Chem. U.S.S.R. 20, 1401-11(1957)
(Bengi translation). - See C.A. 45, 643y. R. M. S.

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722120008-9"

KHODAKOV, Yu.V., chlen-korrespondent.

Structure of inorganic substances. Khim. v shkole no.3:3-12 My-Je '53.
(MLRA 6:7)

1. Akademiya pedagogicheskikh nauk. (Chemical structure)

KHODAKOV, Yu. V.

[General and inorganic chemistry] Obshchaya i neorganicheskaya khimiia. Moskva, Akad.ped.nauk RSR, 1954. 523 p. (MLRA 8:] D)

SHAPOVALENKO, S.G.: KHODAKOV, Yu.V.

New chemistry handbook for the 7th class. Khim.v shkole 9 no.6:
34-43 N-D '54.
(Chemistry) (MLR 8:1)

KHODAKOV, Yu. V.

ORESTOV, I.L.

Serious shortcomings of a useful and needed book. "General and
inorganic chemistry." J.V. Khodakov. Reviewed by I.L. Orestov.
Khim. v shkole 10 no. 470-73 01-1955. (MLR 8:9)
(Chemistry, Inorganic) (Khodakov, IU.)

XHODAKOV, Yury Vladimirovich; TSVETKOV, Leonid Aleksandrovich; SHAPOVALENKO,
Sergey Grigor'yevich; EPSHTEYN, David Arkad'yevich; GRAHETS'KIY, A.A.,
redaktor; KOZLOVSKAYA, M.D., tekhnicheskiy redaktor.

[Chemistry; textbook for the class 10 of the secondary school]
Khimiia; uchebnik dlia 10 klassa srednei shkoly. Pod red. S.O.Shapovalenko. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniya RSFSR, 1956. 167 p.
(Chemistry) (MIRA 9:6)

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722120008-9

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722120008-9"

KHODAKOV, Yuriy Vladimirovich; IVANOVA, G.A., otvetstvennyy red.; KRAVTSOVA, P.M., tekhn.red.

[Stories about invisible matter] Rasskazy o veshchestvakh-nevidim-kakh. Moskva, Gos.izd-vo detskoi lit-ry M-va prosv. RSFSR, 1957. 93 p.

(MIRA 11:6)

(SCIENCE--JUVENILE LITERATURE)

KHODAKOV, Yuriy Vladimirovich; SAVREL'YNA, R.N. red.; TSYIPPO, P.V., tekhn.
red.

[Story-problems in chemistry; a manual for teachers] Rasskaz-
zadacha po khimii; v pomoshch uchiteliu. Izd. 2. Moskva, Gos.
uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1957. 110 p.
(Chemistry---Problems, exercises, etc.) (MIRA 1E17)

KHODAKOV, Yuryi Vladimirovich; TSVETKOV, Leonid Aleksandrovich; SHAPOVA-
LENKO, Sergey Grigor'yevich; EPSHTEYN, David Arkad'yevich; SAVEL'-
YEVA, P.N., redaktor; MAKHOVA, N.N., tekhnicheskiy redaktor.

[Chemistry; a textbook for grades 8-10 in the secondary school]
Khimia; uchebnik dlja VIII-X klassov srednei shkoly. Pod red.
S.G.Shapovalenko. Izd.3-e. Moskva, Gos.uchebno-pedagog.izd-vo
M-va prosv.RSFSR. 1957. 423 p. (MLRA 10:6)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR(for
Shapovalenko).

(Chemistry)

LEVASHOV, Vladimir Ivanovich, zasluzhennyj uchitel' shkoly RSFSR; KHODAKOV,
Yu.V., prof., red.; SHAPOSHNIKOVA, A.A., red.; SOKOLOVA, R.Ya., tekhn.
red.

[Evening of entertaining chemistry in school] Vecher zanimatel'noi
khimii v shkole. Pod red. Iu.V.Khodakova. Moskva, Izd-vo Akad.
pedagog. nauk RSFSR, 1958. 52 p. (MIRA 14:7)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR (for
Khodakov)

(Chemistry—Study and teaching)

XHODAKOV, Yuryi Vladimirovich; TSVETKOV, Leonid Aleksandrovich; SHAPOVALENKO,
Sergey Grigor'yevich; EPSHTEYN, David Arkad'yevich; SAVEL'YEVA, R.N.,
red.; MAKHOVA, N.N., tekhn. red.

[Chemistry; a textbook for grades 8 - 10 of secondary schools] Khimiia;
uchebnik dlja VIII-X klassov srednei shkoly. Pod red. S.G.Shapovalenko.
Izd.4. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1958.
421 p. (MIRA 14:7)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR (for
Shapovalenko)

(Chemistry)

Khodakov, Yu.V.

TSVETKOV, L.A.; KHODAKOV, Yu.V.

Definition of the basic principles in the school chemistry course.
Khim. v shkole 13 no.3:13-25 My-Je '58. (MIRA 11:5)
(Study and teaching)

KHODAKOV, Yuryi Vladimirovich; SAVELYEVA, R.N., red.; MAKHOVA,
N.N., tekhn.red.

[General and inorganic chemistry; a manual for teachers]
Obshchaya i neorganicheskaya khimiya; posobie dlia uchiteli.
Izd.2. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv. RSFSR,
1959. 735 p. (MIRA 12:6)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk (for
Khodakov).

(Chemistry)

KHODAKOV, Yu.V.

Correspondence with readers. Khim. v shkole 14 no.2:87-88
Mr-Ap '59. (MIEA 12:4)

1. Chlen-korrespondent APN RSFSR.
(Chemistry)

KHODAKOV, Yu., prof.; POTKOV, L.L.

"History of the discovery of chemical elements" by G.G. Diogenov.
Reviewed by Iu. Khodakov, L.L. Potkov. Khim. v shkole 16 no. 3:90-
92 My-Je '61. (MIRA 14:5)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR
(for Khodakov).

(Chemical elements) (Diogenov, G.G.)

AUDYUNIN, N.I.; KHODAKOV, Yu.V.

Methods of acquainting students with the structural formulae of
inorganic matter. Khim. v shkole 16 no.6:39-45 N-D '61.

(MIRA 14:11)
(Chemistry, Inorganic—Study and teaching)

KHODAKOV, Yu.V., prof. (Moskva)

Chemistry of planets. Priroda 52 no.6:71-76 '63. (Planets) (MIRA 16:6)